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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/699,897	11/03/2003	Stanford R. Ovshinsky	OCC-1.1	4363
24963 7590 04/09/2007 ENERGY CONVERSION DEVICES, INC. 2956 WATERVIEW DRIVE			EXAMINER	
			NGO, CHUONG D	
ROCHESTER	HILLS, MI 48309		ART UNIT	PAPER NUMBER
,			2193	
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MO	NTHS	04/09/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)			
Office Action Summer	10/699,897	OVSHINSKY ET AL.			
Office Action Summary	Examiner	Art Unit			
	Chuong D. Ngo	2193			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
1) Responsive to communication(s) filed on 28 De	ecember 2003.				
_	action is non-final.				
3) Since this application is in condition for allowar		secution as to the merits is			
closed in accordance with the practice under E					
Disposition of Claims					
_					
4) Claim(s) 1-32 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration.  5) Claim(s) 23-28 is/are allowed.  6) Claim(s) 1-22 and 29-32 is/are rejected.  7) Claim(s) is/are objected to.  8) Claim(s) are subject to restriction and/or election requirement.					
Application Papers					
<ul> <li>9) ☐ The specification is objected to by the Examiner.</li> <li>10) ☐ The drawing(s) filed on <u>03 November 2003</u> is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).</li> <li>11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.</li> </ul>					
Priority under 35 U.S.C. § 119					
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>					
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date  1.S. Patent and Trademic Office	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:	te			

## **DETAILED ACTION**

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1. The status of application No. 10/144,319 cited on the first page should be updated with patent number since it has been patented.

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1-9 and 12-22 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Ovshinsky et al. (6,141,214).

As per claims 1-9 and 12, Ovshinsky et al disclose a method of programming a digital multi-state phase change material (see abstract) by inherently establishing a programming strategy for defining programming states (see col. 2, lines 55-58), assigning data value to the programming states (the bridging paragraph of cols. 5 and 6), providing input data having a

value and providing energy the phase change material in an amount sufficient to transform it to the programming state associated with the input data value as claimed (see col. 6, lines 6-23).

As per claims 13-18, Ovshinsky et al also discloses the providing of energy is accomplished by providing energy in the form of energy pulse, electrical energy, optical energy or thermal energy (see col. 1, line 18-21).

As per claims 19-21, the claimed features are disclosed in Ovshinsky et al col. 15, lines 11-18.

As per claim 22, the claimed features are disclosed in the bridging paragraph of cols. 5 and 6), col. 16, lines 23-32.

As per claims 29-31, Ovshinsky et al discloses in the bridging paragraph of cols. 5 and 6 the number of the programming states is at least four as claimed,

5. Claims 11,12 and 32 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ovshinsky et al. (6,141,214).

It is noted that Ovshinsky et al. does not specifically disclose the number of programming states equal to the base of the arithmetic system, equal to ten, or equal to multiple of two. However, depending on a specific application, it would have be an obvious application/modification to a person of ordinary skill in the art to have the number of programming states having a values as claimed.

6. Claims 23-28 are allowed.

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7. The prior art made of record and not relied upon is considered pertinent to applicant's

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disclosure.

8. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Chuong D. Ngo whose telephone number is (571) 272-3731. The

examiner can normally be reached on Tuesday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Meng-Ai An can be reached on (571) 272-3756. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Chuong D Ngo

Primary Examiner

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